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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/921,862	08/02/2001	Tom L. Nguyen	042390P11859	7160

7590

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EXAMINER

VO, TIM T

ART UNIT

PAPER NUMBER

2112

DATE MAILED: 11/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/921,862

Applicant(s)

NGUYEN, TOM L.

Examiner

Tim T. Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 November 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7, 14-28 and 30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-7, 20-28 and 30 is/are allowed.
- 6) ☒ Claim(s) 14, 17 and 19 is/are rejected.
- 7) ☒ Claim(s) 15, 16 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Part III DETAILED ACTION

Notice to Applicant(s)

1. This application has been examined. Claims 1-7 and 14-28 and 30 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 14, 17 and 19 are rejected under 35 U.S.C. § 102(b) as being anticipated by Envoy et al. patent number 5,58,020 referred hereinafter "Envoy".

As for claim 14, Envoy teaches a client device, comprising:

a serial bus port (see figure 1, client devices are 114, 116, 118 are connecting the root hub 111 via USB bus), the serial bus port to be coupled to a host device (see figure 1, client devices such 114, 116, 118 are coupling to the computer system 122);
and

an interrupt logic element coupled to the serial bus port (see figures 1, 5-7, logic gate 602 and column 9 lines 6-12, wherein the logic gate 602 selectively enables flash detection in response to a trigger actuation as discloses in figure 7 step 703), the interrupt logic element to indicate to the client device to enter an interrupt mode in

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response to the interrupt logic element receiving a set interrupt mode signal (see figures 1, 5-7 and column 9 lines 6-12, wherein the logic gate 602 selectively enables flash detection in response to a trigger actuation as discloses in figure 7 steps 703 and 707); wherein the logic interrupt logic element is included within the client device (see figure 1, 5-6, wherein the logic gate 602 is located within the light gun 116).

As for claim 17, Envoy teaches a non-interrupt capable interface, the non-interrupt capable interface to be enable when coupling the client device to a non-interrupt capable hub device or a non-interrupt capable host device (see figure 1 and column 2 lines 49-51); and

an interrupt capable interface, the interrupt capable interface to be enable when coupling the client to the interrupt capable hub device and/or interrupt capable host device (see figure 1 and column 5 lines 5-34).

As for claim 19, Envoy teaches the serial bus port comprises a universal serial bus port (see figure 1).

Allowable Subject Matter

3. Claims 1-7, 20-27, 28 and 30 are allowable over the prior of records.
4. Claims 15-16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

In response to the applicant's arguments that Envoy fails to teach a client device comprising an interrupt logic element to the client device to enter an interrupt mode in response to the interrupt logic element receiving a set interrupt mode signal. Envoy also teaches interrupt logic located within the client device 116 (see figures 1, 5-6, client device 116, interrupt generator and column 9 lines 6-12, the gating logic 602 selectively enables the flash detect signal). Referring to figure 6, the light gun 116 comprising gating logic 602 coupling to the root hub 111 via serial USB bus, the gating logic 602 enters an interrupt mode by sending a flash position to the USB host controller (figure 7, step 707) in response to detecting a trigger actuation in a light Gun peripheral device (figure 7, step 703). This teaching is equivalent to what is claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 571-272-3642. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571-272-3631. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



08/16/04

Tim T. Vo
Primary Examiner
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